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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/916,247	07/30/2001	Pierre Cote	(4320-347	9131
7.	590 1,1/25/20	RECEIVED		·
Scott R. Pundsack Bereskin & Parr Box 401 40 King Street West Toronto, ON M5H 3Y2		DEC 11 2002	EXAMINER	
			MENON, KRISHNAN S	
		BERESKIN & PARR	ART UNIT	PAPER NUMBER
CANADA			1723	
420		20)	DATE MAILED: 11/25/2002	
		1 Scott		

Please find below and/or attached an Office communication concerning this application or proceeding.

)	Application No.	Applicant(s)	- 6			
Office Action Summary		09/916,247	COTE ET AL.				
	a series reading annually	Examiner	Art Unit				
	The MAILING DATE of this communication	Krishnan S Menon	1723				
	The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	th the correspondence address	5			
	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Doesn't Fee The 1200 3 months of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). earned patent term adjustment. See 37 CFR 1.704(b). Status						
	1) Responsive to communication(s) filed on <u>27 November 2001</u> .						
	2a)☐ This action is FINAL . 2b)⊠ T	This action is non-final.					
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
	4)⊠ Claim(s) <u>1-30</u> is/are pending in the application	on.					
4a) Of the above claim(s) <u>1-25</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
	6)⊠ Claim(s) <u>26-30</u> is/are rejected.						
l	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
	9) The specification is objected to by the Examiner.						
	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
	If approved, corrected drawings are required in reply to this Office action.						
	12) The oath or declaration is objected to by the Examiner.						
	Priority under 35 U.S.C. §§ 119 and 120						
	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
	a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
	a) ☐ The translation of the foreign language provisional application has been received. 15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
A	Attachment(s)	0.	•				
2) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2	5) Notice of Infe	mmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)	-·			
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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-25, drawn to membrane cleaning methods, classified in class 210, subclass
 354.
- II. Claims 26-30, drawn to process of filtering, classified in class 210, subclass 650.

 The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions cannot be used together, since the membrane cannot be used for process while it is being cleaned.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

During a telephone conversation with Scott Pundsack, attorney of record, on 11/1/02 a provisional election was made without traverse to prosecute the invention of group II, claims 26-30. Affirmation of this election must be made by applicant in replying to this Office action. Claims 1-25 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any

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amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 27 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The phrase "... between once a day and once a cycle" is confusing. Assuming that a cycle is defined by indent (f) of the claim, does it imply that backwashing with cleaning chemical is used more frequently or less frequently than the backwashing and draining cycle of the tank? For examination purpose, the backwashing with cleaning chemical is taken as being conducted both more and less frequently than the cycle as defined by indent (f) of the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 26-30 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Smith et al (US 5,403,479).

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Smith (479) teaches a process of filtering water containing solids by immersing a membrane in a tank containing the water and providing a trans-membrane pressure for the filtration (Fig 2,7; col 15 line 63-col 16 line 10), with the permeate side connected to permeate outlet (line 22, and tank 27, fig 2), the membrane aerated (col 16 lines 20-25), backwashing the membrane and draining the tank (Smith '479 is not advocating periodic draining of the tank as is seen in col 10 lines 59-68; col 18 lines 13-29) periodically by a select cleaning fluid for a select period (col 11 lines 22-61). The cleaning is between once a day and once a cycle (see fig 6; col 13 lines 50-57) as in instant claim 27. The cleaning is carried out to maintain an acceptable permeability of the membrane as in instant claim 28 (col 13 lines 50 – 57, col 18 lines 5-12). The sum of the products of chemical concentration and duration of cleaning could be between 5,000 and 10,000 min.mg/L or equivalent for another cleaning chemical (calculated from fig 4 and fig 6) as in instant claim 29 and 30.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cote et al (US 5,607,593) and (US 6,214,231) teach similar process of in-situ cleaning of submerged membranes.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krishnan S Menon whose telephone number is 703-305-5999. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L Walker can be reached on 703-308-0457. The fax phone numbers for the organization

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where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Krishnan S. Menon Patent Examiner November 5, 2002

W. L. WALKER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700

